INTERNATIONAL STANDARD

ISO 20193

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Tobacco and tobacco products — Determination of the width of the strands of cut tobacco

Tabac et des produits du tabac — Détermination de la largeur des brins de tabac haché

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 126, *Tobacco and tobacco products*, Subcommittee SC 1, *Physical and dimensional tests*.

This second edition cancels and replaces the first edition (ISO 20193:2012), which has been technically revised. The main change compared to the previous edition is as follows:

— measurement of 20 strands along a single line rather than 5 lines previously. 101d252a/iso-20193-2019

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Tobacco and tobacco products — Determination of the width of the strands of cut tobacco

1 Scope

This document specifies a method for the determination of the width of strands of cut tobacco. This method is only applicable on samples of strands of cut tobacco with a uniform cut width.

NOTE There are other ways of measuring the width of the strands of cut tobacco. A system with the same accuracy can be used, for example a microscope with an internal fitted ruler or a camera with image processing system.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 216, Writing paper and certain classes of printed matter — Trimmed sizes — A and B series, and indication of machine direction

ISO 3402, Tobacco and tobacco products — Atmosphere for conditioning and testing

ISO 8243, Cigarettes — Sampling

ISO 15592-1, Fine-cut tobacco and smoking articles made from it — Methods of sampling, conditioning and analysis — Part 1: Sampling

ISO 15592-2, Fine-cut tobacco and smoking articles made from it — Methods of sampling, conditioning and analysis — Part 2: Atmosphere for conditioning and testing 1647-4924-881310102524/180-20193-2019

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at https://www.iso.org/obp
- IEC Electropedia: available at http://www.electropedia.org/

3.1

cut width

width of a strand of tobacco

3.2

cut tobacco with a uniform cut width

homogeneous products mainly constituted of cut strands with visually minimal strand width difference between them

4 Principle

Taking into consideration the fact that the tobacco samples to be analysed have a uniform cut width and that the mass of the individual tobacco strands may be disregarded, 20 strands of at least 10 mm

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long are taken from the total test portion and measured along a perpendicular line to determine their cut width.

A statistical conclusion for the population may be drawn from the resulting 20 values.

5 Apparatus

Normal laboratory apparatus and, in particular, the following items.

5.1 Sample holder, capable of holding the strands in a fixed position.

Annex A gives an example of a holder (see Figure A.1) including guidance for its suitable dimensions.

5.2 Measuring device, with an accuracy of at least ±0,1 mm.

6 Procedure

6.1 General

For production control, samples can be selected just after cutting and measured rapidly in order to minimize the influence of ambient conditions.

If packed samples are analysed (for example in pouch, bag, box or cigarette pack), the atmosphere for the preparation of the strands and for the determination of the cut width of fine-cut tobacco shall be in accordance with the testing atmosphere specified in ISO 15592-2. For cigarettes, ISO 3402 shall be applied accordingly.

6.2 Sampling

Take the samples in accordance with ISO 15592-1 or ISO 8243.

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6.3 Preparation of the samples | dards/iso/c7da69b4-561f-4e47-a92a-8813101d252a/iso-20193-2019

If samples are prepared from the packed product, a test portion of 50 g is taken.

If samples are prepared from the packed product, they shall be conditioned according to ISO 15592-2 for fine-cut tobacco or ISO 3402 for cigarettes. After conditioning, spread out the test portion.

Spread out the test portion as evenly as possible on an area of size A3 in accordance with ISO 216.

6.4 Preparation of the strands

From the test portion, randomly take 20 strands of at least 10 mm long which have been cut in parallel.

Secure the strands to a sample holder (5.1). Affix each strand to the surface of the sample holder perpendicular to the line(s) on the sample holder (some sample holders may have more than one line), taking care to ensure that the strands lie flat and are not twisted.

When the strands have been affixed to the sample holder, it is covered with a transparent strip in order to secure the strands' position.

When securing the strands, take care to avoid stretching. Artificial damage to the strands should be avoided.